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CLAIMS:

- 1. A computing system aiding in the operation diagnostic and maintenance functions of a remote computing devices, the remote computing devices coupled to a network and running under a first boot image, the diagnostic system comprising:
- a process initiator that allows for the selection of a particular remote computing device;
- a download director, communicatively coupled to the user interface, that controls a download of a Maintenance boot image to the particular remote computing device via the network;
 - a first reboot director that initiates a first Reboot process of the particular remote computing device with the maintenance boot image;
 - a second reboot director that initiates a second reboot process of the particular remote computing device upon the occurrence of a predetermined event associated With the maintenance boot image prior to the second Reboot process and operating with the first boot image Subsequent to the second reboot process; and

the particular remote computing device performing diagnostic or maintenance functions under the maintenance boot image.

- 25 2. The system of claim 1, the process initiator Further selecting a specific operational mode of the Particular remote computing device.
- 3. The system of claim 2, wherein the selection of a specific operational mode results in a download of a particular new boot image from among a plurality of boot images.

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- 4. The system of claim 3, wherein each of the plurality of boot images is operable to perform a particular maintenance or diagnostic task on the particular remote computing device.
- 5 5. The system of claim 3 wherein the plurality of boot images reside on a remote storage media.
 - 6. The system of claim 1 further comprising an operation monitor, the operation monitor monitoring the particular remote computer for the occurrence of the predetermined event.
 - 7. The system of claim 6 wherein the predetermined event is a signal from the particular remote computing device that a function associated with the operational mode associated with the maintenance boot image has been completed.
 - 8. The system of claim 1 wherein the process initiator is a used interface, and an operator specifies the particular remote computing system.
- 9. The system of claim 1 wherein the process initiator
 is an independent diagnostic program, the independent
 diagnostic monitor initiating the selection of the
 particular remote computing device based upon specified
 criteria, the criteria of the remote system being
 monitored by the diagnostic program.
- 25 10. A method for diagnosing and maintaining remote computing devices the remote computing device coupled to a network and running under a first boot image, the method comprising:
- selecting a particular remote computing device;

 30 downloading a maintenance boot image to the particular

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initiating a first reboot process of the particular remote computing device with the maintenance boot image;

5 performing a diagnostic or maintenance function by running the particular remote computing device under the maintenance boot image; and

initiating a second reboot process of the

10 Particular remote computing device upon the occurrence of a predetermined event associated with the maintenance boot Image.

- 11. The method of claim 10, the step of selecting comprising:
- selecting a specific operational mode of the Particular remote computing device.
 - 12. The method of claim 11, the step of selecting a specific operational mode resulting in downloading a particular new boot image from among a plurality of boot images.
 - 13. The method of claim 12, wherein each of the plurality of boot images is operable to perform a particular maintenance or diagnostic task on the particular remote computing Device.
- 25 14. The method of claim 12 wherein the plurality of boot images reside on a remote storage media.
 - 15. The method of claim 10 further comprising:

monitoring the particular remote computer for the occurrence of the predetermined event.